



IPS TESTING

Test Report
June 17, 2020
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SGS-IPS 00967-20

Report to: Thomas Eastham
Care Gear Manufacturing LLC
25822 Bridle Falls
Magnolia, TX 77355

Sample Identification: **Two Blue LDPE Gown Samples (1.25 mil and 1.50 mil)**

Date Received: June 11, 2020

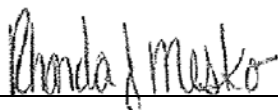
Test(s) Requested: Water Resistance: Impact Penetration, Water Resistance: Hydrostatic Pressure

PO Number: Credit Card

Analysis of Two Blue LDPE Gown Samples (1.25 mil and 1.50 mil)

SGS-IPS Testing performed the testing listed above on two blue LDPE gown samples (1.25 mil and 1.50 mil) provided by Care Gear Manufacturing LLC. The results are listed in Tables 1 and 2 on the following pages.

If you have any questions, please contact us.

Authorized by 
Rhonda J Mesko
Laboratory Manager

Signed 
Eric Belter
Lab Technician
Analytical Services
920-749-3040

Table 1. Water Resistance: Impact Penetration





	Blue Gown 1.25 mil	Blue Gown 1.50 mil	Blue Gown 1.25 mil - Seam	Blue Gown 1.50 mil - Seam
  AT-1659				
Water Penetration (g)				
1	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0
Average	0.0	0.0	0.0	0.0
Std. Dev.	0.00	0.00	0.00	0.00
Maximum	0.0	0.0	0.0	0.0
Minimum	0.0	0.0	0.0	0.0
n=	3	3	3	3
Test Parameters				
Temperature (°C)	26.7	26.6	26.4	26.4
Test Side: Outside				
Blotter Lot: 112645				

Table 2. Water Resistance: Hydrostatic Pressure

	Blue Gown 1.25 mil	Blue Gown 1.50 mil	Blue Gown 1.25 mil - Seam	Blue Gown 1.50 mil - Seam
Orientation	Outside	Outside	Outside	Outside
  AT-1659				
Hydrohead (mbar)				
1	120	139	113	51.2
2	119	141	122	51.0
3	118	137	123	52.3
Average	119	139	119	51.5
Std. Dev.	1.0	2.0	5.5	0.70
Maximum	120	141	123	52.3
Minimum	118	137	113	51.0
n=	3	3	3	3
Hydrohead (cm of H ₂ O)	121	142	122	52.5
Test Parameters				
Temperature (°C)	22.9	22.9	22.9	23.0
Test Pressure Limit (mbar)	1000	1000	1000	1000
Failure Type	Burst	Burst	Burst	Burst

Gradient: 60 mbar/min
 Water Type: Deionized Water

Method(s) and Notes:

All valid results are included in the statistical analyses.
 Revisions of SGS-IPS methods when used are current at the time of testing.
 Samples tested and conditioned in TAPPI standard conditions unless requested otherwise by customer.
 Samples were not preconditioned.

AATCC 42-2017 Water Resistance: Impact Penetration Test

Type II Impact Penetration Tester was used for this testing.
 Samples conditioned in TAPPI standard conditions unless requested otherwise by customer.

The estimated k=2 uncertainty for AATCC 42 is calculated and available on request.
 Spray head has a hole in the center, funnel is plastic instead of glass.

Blotter papers used: Ahlstrom Grade 989.

AATCC Test Method 127-2017 Water Resistance: Hydrostatic Pressure Test

Option 2, Hydrostatic Head Tester.

Samples conditioned in TAPPI standard conditions unless requested otherwise by customer.

Analyzed by: EB

Quality review by: AS

Date(s) of testing: June 17, 2020

Room Conditions

	Relative Humidity (%)	Temperature (°F)
Conditioning Environment	50.6	73.2
Maximum during testing	50.6	73.9
Minimum during testing	49.9	73.2

Note: See the method(s) cited above for available estimates of measurement uncertainty. Unless otherwise noted, sampling was performed by customer.

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